

1. A communication system for providing communication services to user communication devices, the communication system comprising:

a transmitting antenna;

a transmitter connected to the transmitting antenna and configured to

5 transmit first wireless signals via the transmitting antenna;

a directional receiving antenna wherein an angle of the directional receiving antenna is less than forty five degrees and the directional receiving antenna is directed toward an angular area of less than forty five degrees;

10 a receiver connected to the directional receiving antenna and configured to receive second wireless signals via the directional receiving antenna; and

a communication interface connected to the transmitter, the receiver, and a communication network and configured to provide the communication services between the communication network and the user communication devices.

15 2. The communication system of claim 1 wherein the first wireless signals are in the Multichannel Multipoint Distribution Service (MMDS) frequency range.

3. The communication system of claim 1 wherein the first wireless signals are in the Multipoint Distribution Service (MDS) frequency range.

20 4. The communication system of claim 1 wherein the second wireless signals are in the Multichannel Multipoint Distribution Service (MMDS) frequency range.

25 5. The communication system of claim 1 wherein the second wireless signals are in the Multipoint Distribution Service (MDS) frequency range.

6. The communication system of claim 1 wherein the user communication devices comprise wireless broadband routers.

30 7. The communication system of claim 1 wherein the transmitting antenna comprises an omni-directional antenna.

8. The communication system of claim 1 wherein the angle of the directional receiving antenna is thirty six degrees.

5 9. The communication system of claim 1 wherein the angle of the directional receiving antenna is twenty four degrees.

10. The communication system of claim 1 wherein the angle of the directional receiving antenna is twelve degrees.

10

11. The communication system of claim 1 wherein the communication interface comprises a downstream manager.

12. The communication system of claim 1 wherein the communication interface  
15 comprises an upstream manager.

13. A method for providing communication services to user communication devices, the method comprising:

transmitting first wireless signals from a transmitter via a transmitting antenna;

5 receiving second wireless signals into a receiver via a directional receiving antenna wherein an angle of the directional receiving antenna is less than forty five degrees and the directional receiving antenna is directed toward an angular area of less than forty five degrees; and

10 in a communication interface, providing communication services between a communication network and the user communication devices wherein the communication interface is connected to the transmitter, the receiver, and the communication network.

14. The method of claim 13 wherein the first wireless signals are in the  
15 Multichannel Multipoint Distribution Service (MMDS) frequency range.

15. The method of claim 13 wherein the first wireless signals are in the Multipoint Distribution Service (MDS) frequency range.

20 16. The method of claim 13 wherein the second wireless signals are in the Multichannel Multipoint Distribution Service (MMDS) frequency range.

17. The method of claim 13 wherein the second wireless signals are in the Multipoint Distribution Service (MDS) frequency range.

25 18. The method of claim 13 wherein the user communication devices comprise wireless broadband routers.

30 19. The method of claim 13 wherein the transmitting antenna comprises an omni-directional antenna.

20. The method of claim 13 wherein the angle of the directional receiving antenna is thirty six degrees.

5 21. The method of claim 13 wherein the angle of the directional receiving antenna is twenty four degrees.

22. The method of claim 13 wherein the angle of the directional receiving antenna is twelve degrees.

10 23. The method of claim 13 wherein the communication interface comprises a downstream manager.

15 24. The method of claim 13 wherein the communication interface comprises an upstream manager.